

Reexam No.: 90/005,708

Docket No.: HO-P02233US0

AMENDMENTS TO THE CLAIMS

Claims 1-3 (canceled)

4. (Currently Amended) [The apparatus of claim 1 wherein] An apparatus for injecting coiled tubing into a hole in the earth's surface comprising:

a frame having a front end and a back end;

opposed bullnose arms mounted to said frame,

a tubing storage spool removably mounted to said bullnose arms, said tubing storage spool having said coiled tubing stored thereon;

an injector reel rotatably mounted to said frame; and

a drive mechanism attached to said injector reel to rotate said injector reel;

wherein said bullnose arms are vertically adjustable to accept varying tubing storage spool diameters

[said second tubing injecting position positions said injector reel above said front end of said frame, and said coiled tubing exits said apparatus at an angle less than 90° to said surface].

5. (Currently Amended) The apparatus of claim [1] 4 further comprising a first tubing stabilizer assembly mounted within said frame and a second tubing stabilizer mounted above said hole in said surface.

Claims 6-8 (canceled)

9. (Currently Amended) The apparatus of claim [1] 4 wherein said drive mechanism is of adjustable length to accommodate a range of storage spool diameters.

Claims 10-11 (canceled)

12. (Previously presented) The apparatus of claim 4, wherein said bullnose arms are horizontally adjustable to accept varying spool widths.

13. (Previously presented) The apparatus of claim 4, further comprising a hold down assembly mounted around a portion of the circumference of said injector reel for exerting a pressur against said coiled tubing.

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14. (Previously presented) The apparatus of claim 13, wherein said injector reel is moveable from a first stored position to a second operative position, and said pressure is exerted over more than 90° of said injector reel when said injector reel is in said second operative position and said coiled tubing is directed between said hold down assembly and said circumference of said injector reel to provide positive engagement of said tubing by said injector reel when said injector reel is rotated to pull said tubing off of said tubing storage spool or return said tubing to said tubing storage spool.

15. (Previously presented) The apparatus of claim 13, wherein said hold down assembly comprises:

multiple spindle brackets, said brackets having a spindle connected to said spindle bracket; a roller rotatably connected to said spindle, the roller having a groove; and a tension adjuster for adjusting the tension of the roller against said coiled tubing.

16. (Previously presented) The apparatus of claim 4, wherein said injector reel is moveable from a first stored position to a second operative position, and said second position positions said injector reel above said front end of said frame, and said coiled tubing exits said apparatus at an angle less than 90° to said surface.

17. (Previously presented) The apparatus of claim 4, further comprising a mast pivotally mounted on said frame, wherein said injector reel is rotatably mounted to the frame via the mast.

18. (Previously presented) The apparatus of claim 4, further comprising a mast pivotally mounted on said frame, wherein said frame is pivotally moveable in a vertical direction.

19. (Previously presented) The apparatus of claim 17, wherein said injector reel is moveable from a first stored position to a second operative position.

20. (Previously presented) The apparatus of claim 4, wherein each bullnose arm having a bullnose assembly for engagement with said storage spool.

21. (Previously presented) The apparatus of claim 4, wherein said injector reel is moveable from a first stored position to a second operative position.

22. (Previously presented) The apparatus of claim 4, further comprising a tubing straightener mechanism attached to said injector reel.

23. (Previously presented) The apparatus of claim 4, wherein the drive mechanism comprises:

a hydraulic motor; and

a spool drive socket interconnected to said hydraulic motor via a chain drive or belt.

24. (Previously presented) The apparatus of claim 23, wherein the drive mechanism further comprises an adjustable idler to vary the length of the drive mechanism to accommodate various diameter spools.

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25. (Previously presented) The apparatus of claim 13, wherein the pressure against said tubing is performed by varying the pressure of one or more rollers of said hold down assembly against said coiled tubing.